

I claim:

1. A system to respond to the discharge of hazardous substances, which includes a structure constructed of a material type subject to rupture when exposed to said hazardous substance.
2. The system of claim 1, further including a means of mitigating damage to surrounding structures or personnel from exposure to said hazardous substance, applied automatically in the event of said exposure.
3. The system of claim 2, further including at least one reservoir containing a neutralizing substance, fixedly attached to said structure.
4. The system of claim 1, further including an alarm to notify personnel in the event of system pressure loss.
5. The system of claim 4, further including at least one alarm from a list of a siren, flashing light, horn, computer signal, telephone signal and a wireless signal.
6. The system of claim 1, wherein said system is portable.
7. The system of claim 2, wherein said system has multiple structures and mitigating means to mitigate multiple hazardous substance types.
8. The system of claim 1, wherein said system is pressurized above ambient pressures.
9. The system of claim 1, further including an exterior coating on said structure that reacts with said hazardous substance to promote the rupture of said structure.
10. The system of claim 2, wherein said means is a neutralizing substance enclosed within said structure that is discharged from said structure to neutralize said hazardous substance.

11. The system of claim 2, wherein said means is at least one from a list of means including absorbing said hazardous substance within said structure, vacuuming said hazardous substance into said structure and said system, and damming the spread of said hazardous substance by said structure to prevent further spread.

12. The system of claim 1, wherein said material type is at least one from a list of material types including nylon, silicone, acrylic, poly vinyl chloride, vinyl and polycarbonate.

13. The system of claim 10, wherein said neutralizing substance is at least one from a list of neutralizing substances including calcium carbonate, magnesium oxide, sodium carbonate, calcium gluconate gel, sodium bisulfate, vermiculate, sodium bicarbonate, sodium thiosulfate, phosphoric acid, urea, mono-ammonium phosphate, fumeric acid, attapulgate clay, citric acid, perlite, silica, activated carbon, triethanolamine, zinc, zinc oxide, trisodium phosphate, calcium hypochlorite, hydrochloric acid, ammonium polyphosphate and water.

14. A method of mitigating damage from discharged hazardous substances, comprising:

- a) routing a flexible structure around the perimeter of a storage area, featuring containers of hazardous materials;
- b) connecting said structure to a reservoir; and
- c) installing and pressurizing said connected reservoir and structure with a neutralizing substance for said hazardous substances,

where, upon impingement of said hazardous substance upon said structure, degradation of said structure occurs, resulting in rupture of said structure and discharge of said neutralizing substance onto said hazardous substance.

15. The system of claim 14, further connecting an alarm to said system that activates upon loss of pressure in said system.

16. The system of claim 14, further including an exterior coating on said structure that reacts with said hazardous substance to promote the rupture of said structure.

17. The system of claim 14, wherein said material type is at least one from a list of material types including nylon, silicone, acrylic, poly vinyl chloride, vinyl and polycarbonate.

18. The system of claim 14, wherein said neutralizing substance is at least one from a list of neutralizing substances including calcium carbonate, magnesium oxide, sodium carbonate, calcium gluconate gel, sodium bisulfate, vermiculate, sodium bicarbonate, sodium thiosulfate, phosphoric acid, urea, mono-ammonium phosphate, fumaric acid, attapulgit clay, citric acid, perlite, silica, activated carbon, triethanolamine, zinc, zinc oxide, trisodium phosphate, calcium hypochlorite, hydrochloric acid, ammonium polyphosphate and water.

19. A system to respond to the discharge of hazardous substances, comprising:

a) at least one structure constructed of a material type subject to rupture when exposed to said hazardous substances; and

b) at least one reservoir containing a neutralizing substance and pressurized above ambient pressures, with each reservoir fixedly attached to an individual said structure.

20. The system of claim 19, further including an alarm to notify personnel in the event of system pressure loss.